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PA - (HODO) HODOGAYA CHEM IND CO LTD

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AB - J03044362 2,6-Dichlorobenzonitrile is produced by ammoxidating
2,6-dichlorotoluene with gas contg. ammonia and oxygen. A
gamma-alumina is used to carry a metal oxide catalyst having a compsn.
of VaMobCrcPdOe, where a, b, c, d and e represent an atomic ratio, and
when a = 1, b = 0.05-10, c = 0.1-30, d = 0.05-10, and e denotes a
number naturally taken based on the valences of the other atoms. A
catalyst is used which is produced by moulding the carried catalyst
into it so that the pore vol. of macropores falling within the range
of 500 Angstroms - 10 microns may retain a vol. of not smaller than
0.1 ml/g.

- USE/ADVANTAGE - 2,6-Dichlorobenzonitrile (DBN) is widely used as an
intermediate for the mfr. of herbicides, insecticides, drugs, etc. The
gamma-alumina-carried V-Mo-Cr-P catalyst manifests good activity and
selectivity, owing to its compsn. and pore distribution, for the
ammoxidation to produce DBN from 2,6-dichlorotoluene, enabling
industrial prodn. of DBN with a high yield. (5pp Dwg.No.0/0)

CN - R01492-P

IW - PRODUCE AGROCHEMICAL INTERMEDIATE DI CHLORO BENZONITRILE AMMOXIDATION
DI CHLORO TOLUENE GAS CONTAIN AMMONIA OXYGEN METAL OXIDE CATALYST
CARRY GAMMA ALUMINA

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NC - 001

OPD - 1989-07-12

ORD - 1991-02-26

PAW - (HODO) HODOGAYA CHEM IND CO LTD

TI - Prodn. of agrochemical intermediate 2,6- di:chloro:benzonitrile - by
ammoxidation of 2,6-di:chloro:toluene with gas contg. ammonia and
oxygen using metal oxide catalyst carried by gamma-alumina